

FIG. 1

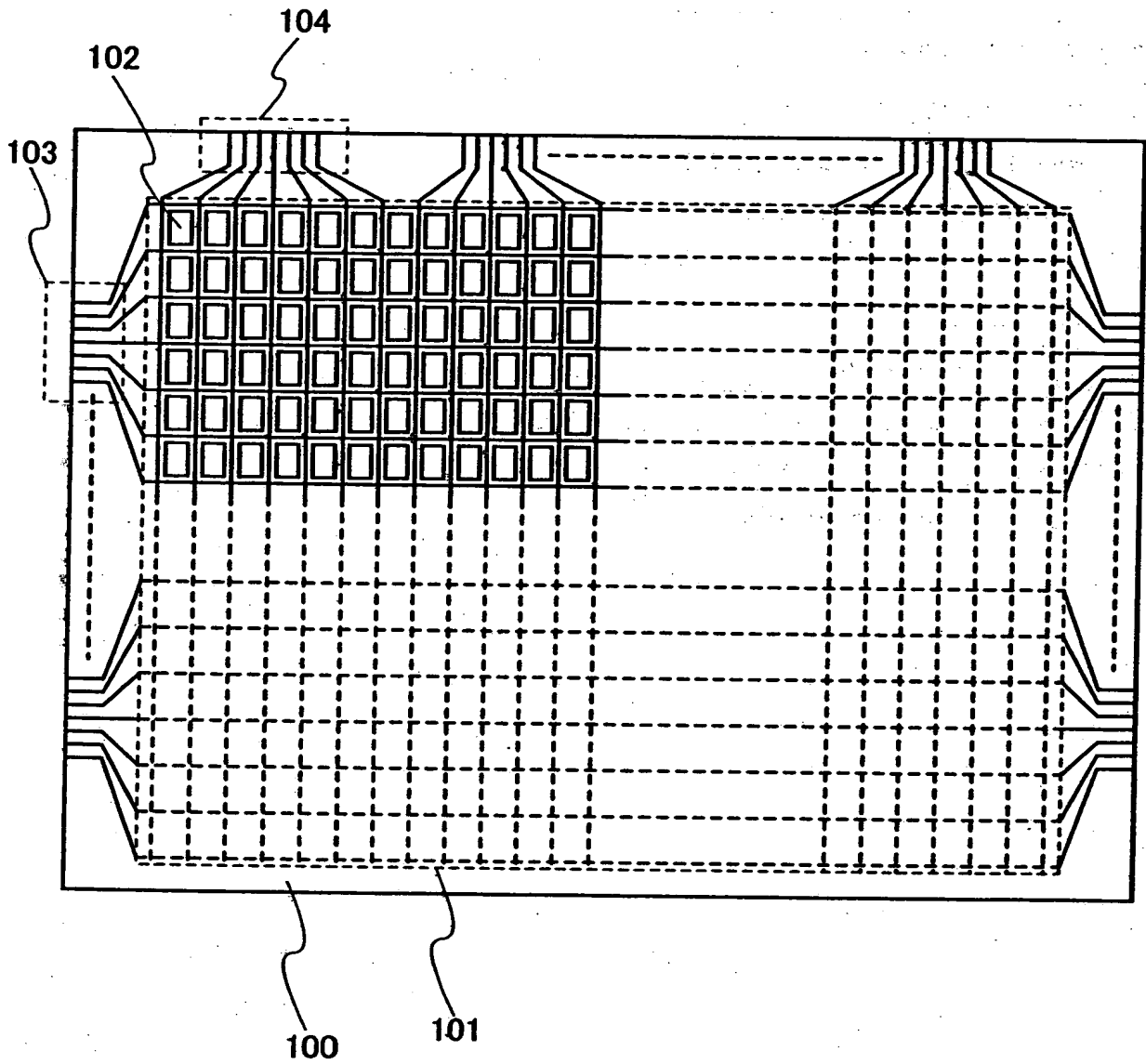


FIG. 2

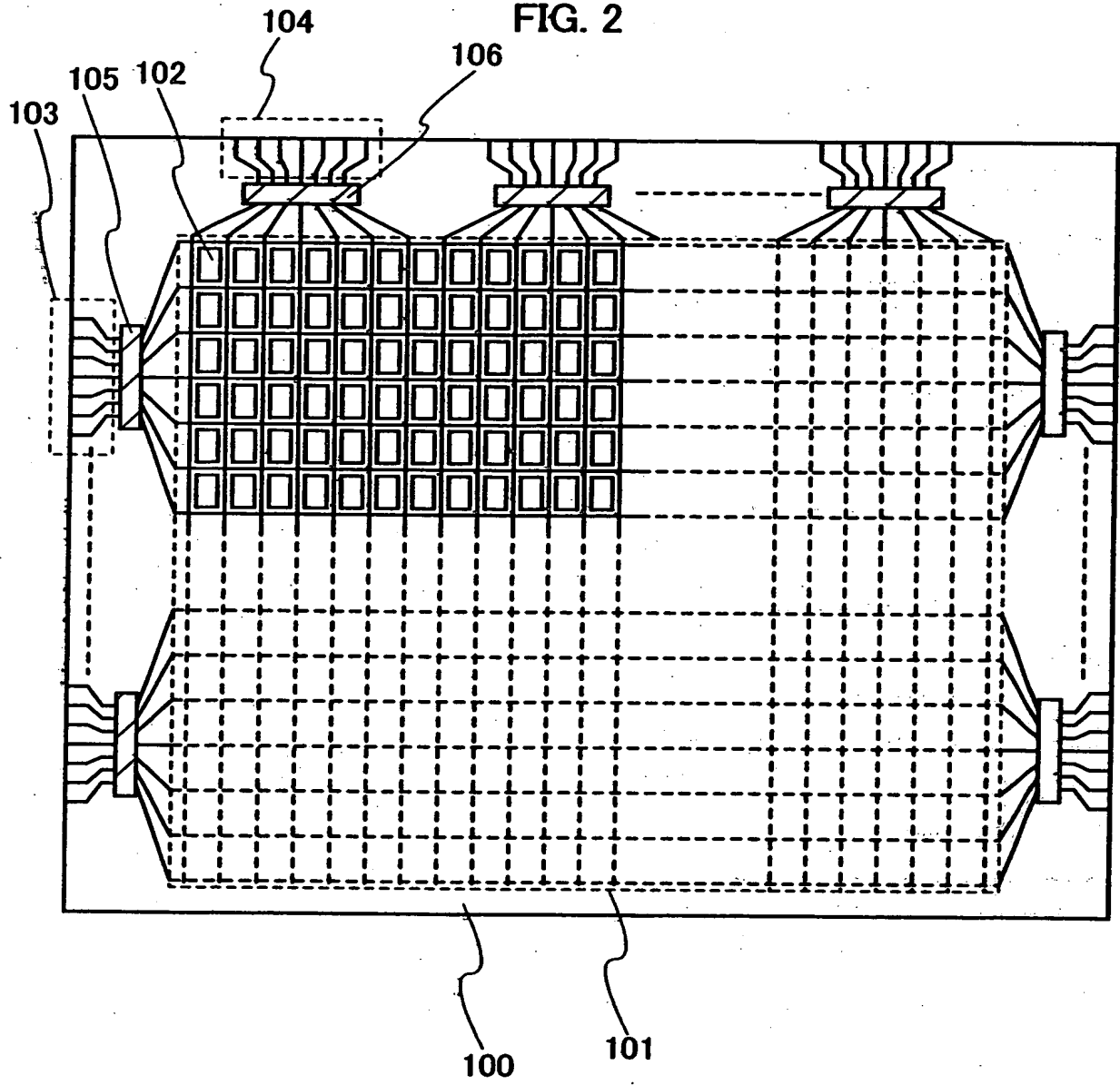
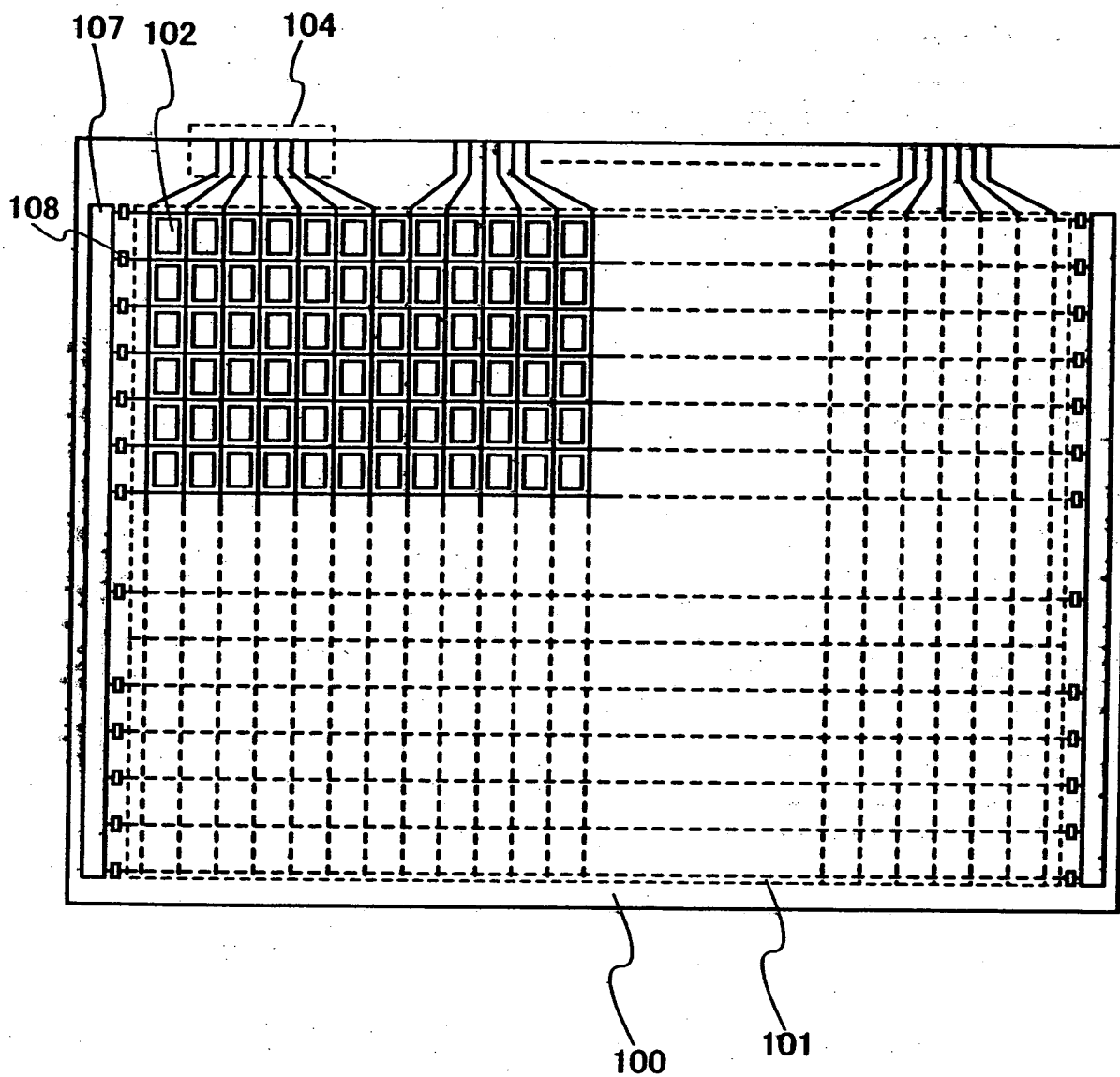


FIG. 3



A - B CROSS SECTION

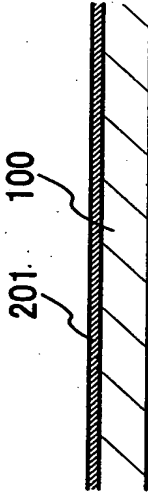


FIG. 4A

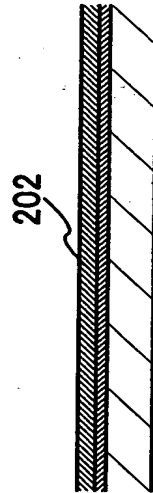


FIG. 4B

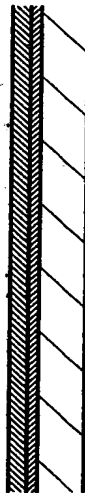


FIG. 4C

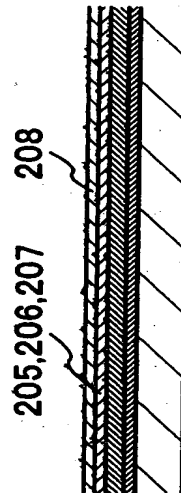


FIG. 4D

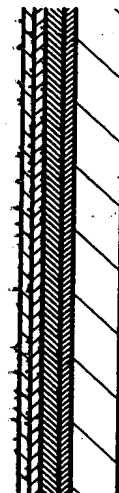
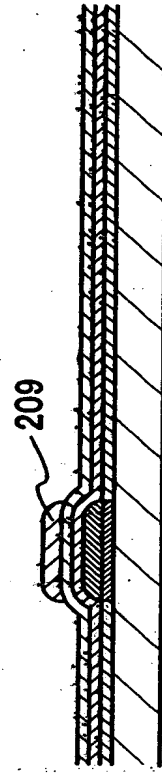
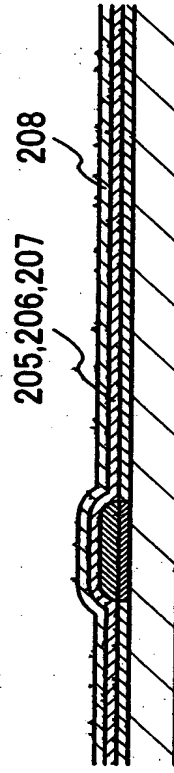
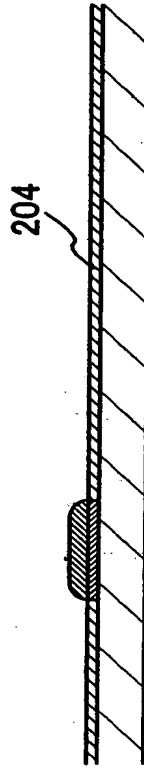
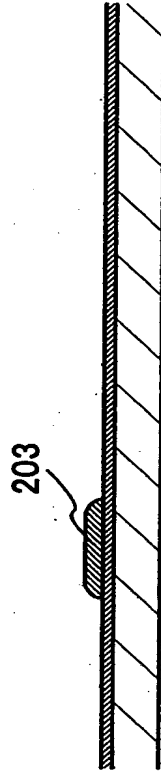
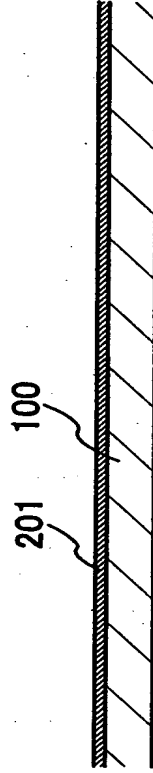


FIG. 4E

C - D CROSS SECTION



A - B CROSS SECTION

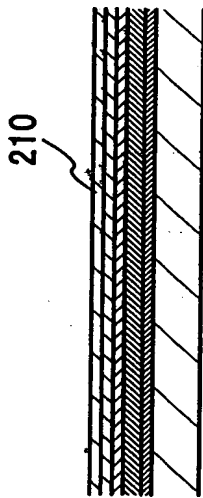


FIG. 5A

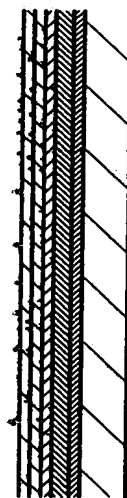


FIG. 5B

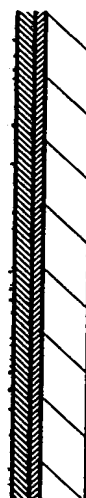


FIG. 5C

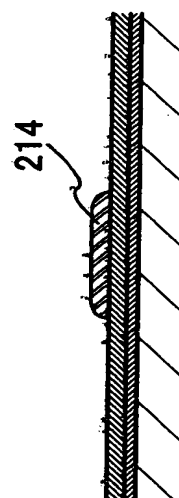


FIG. 5D

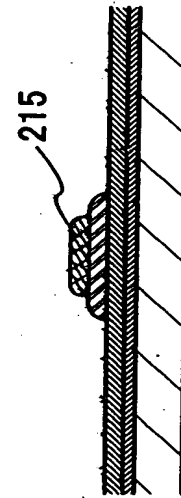
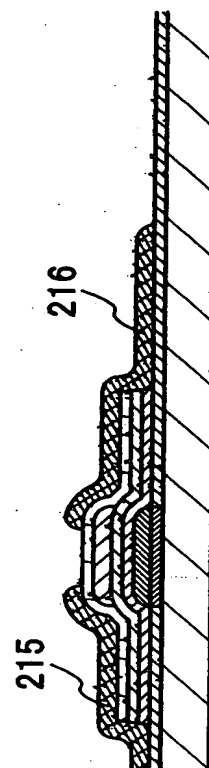
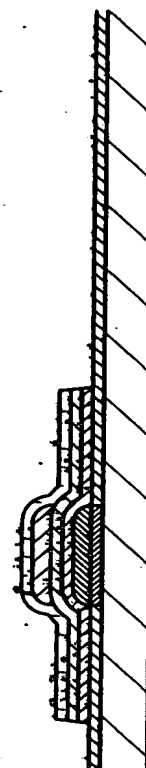
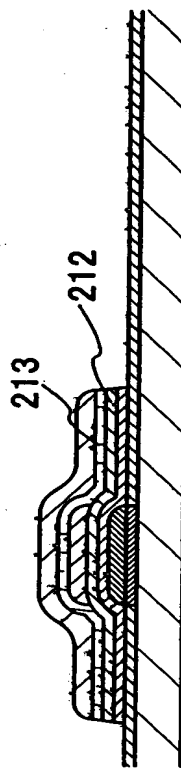
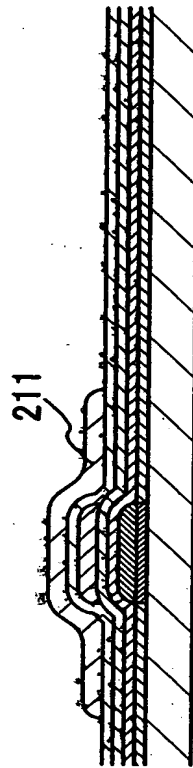
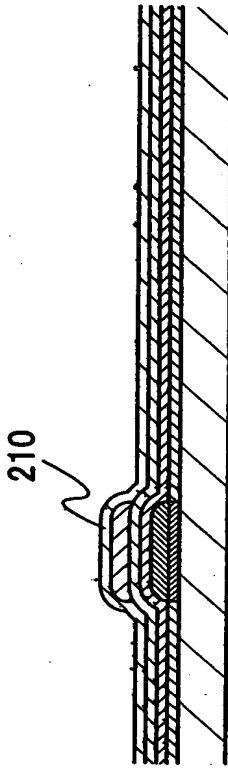


FIG. 5E

C - D CROSS SECTION



A - B CROSS SECTION

C - D CROSS SECTION

FIG. 6A

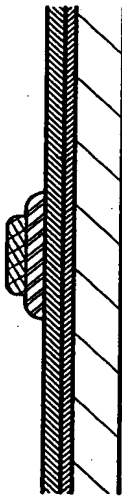


FIG. 6B

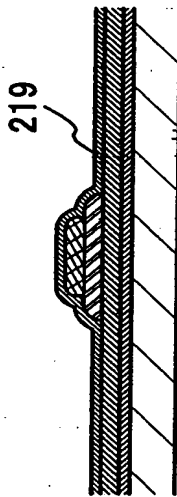


FIG. 6C

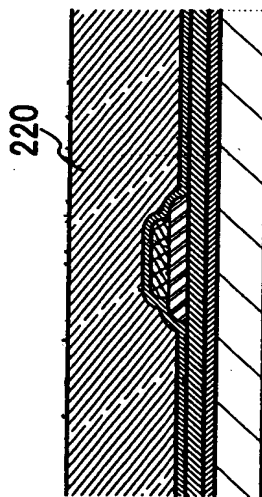
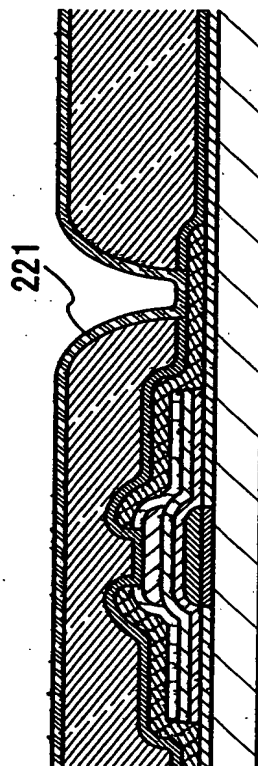
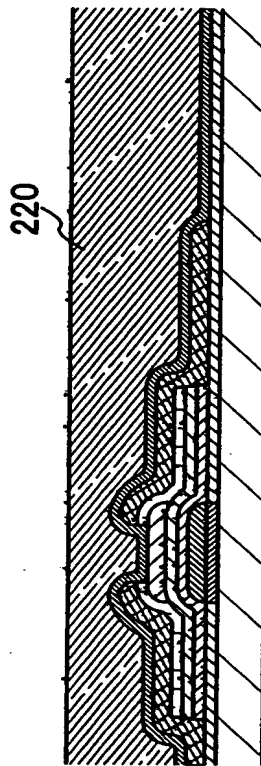
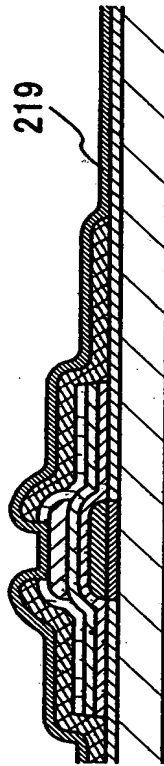
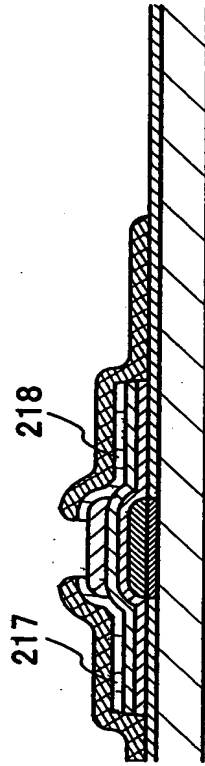
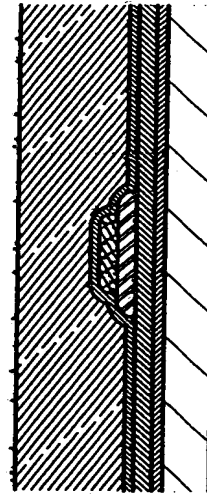


FIG. 6D



200

A - B CROSS SECTION

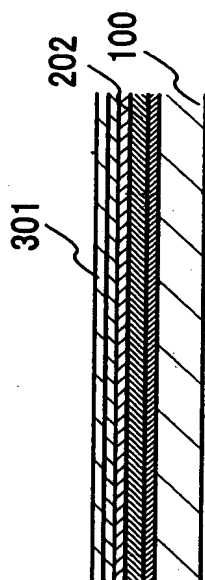


FIG. 7A

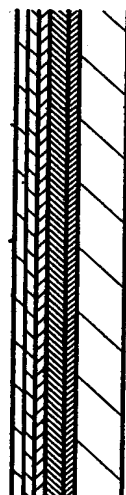


FIG. 7B

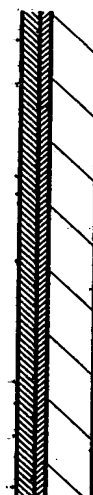


FIG. 7C

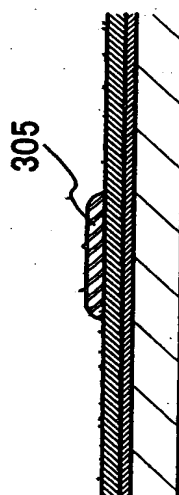


FIG. 7D

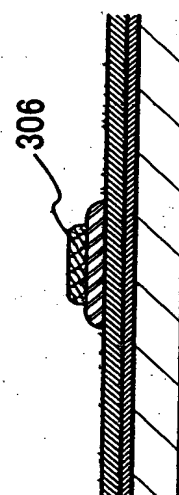
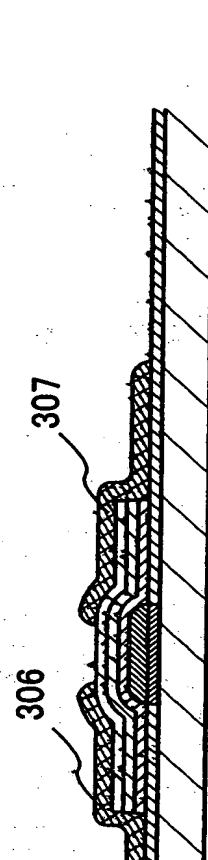
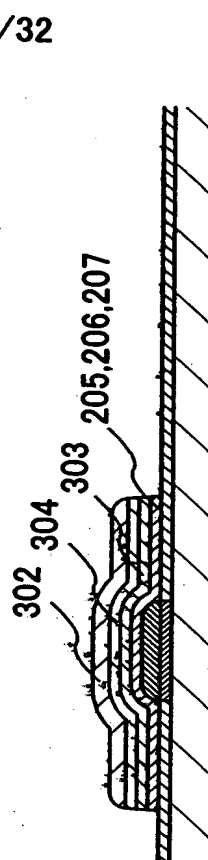
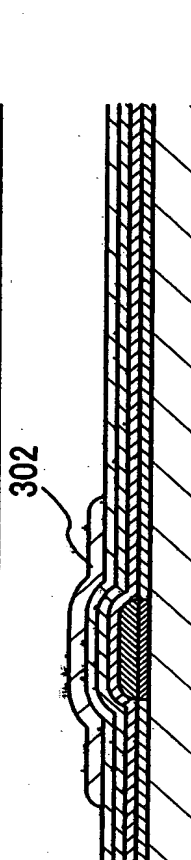
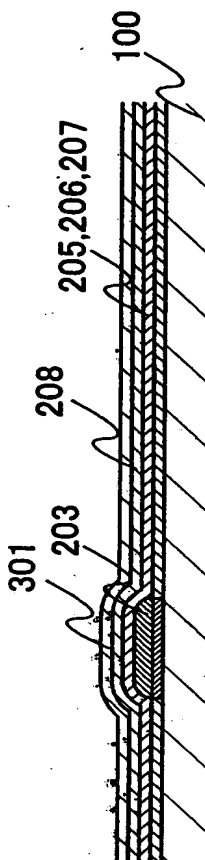


FIG. 7E

C - D CROSS SECTION



A - B CROSS SECTION

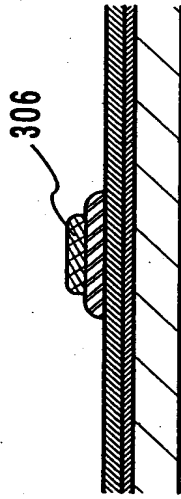


FIG. 8A

219

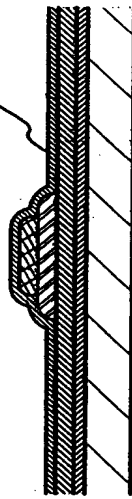


FIG. 8B

220

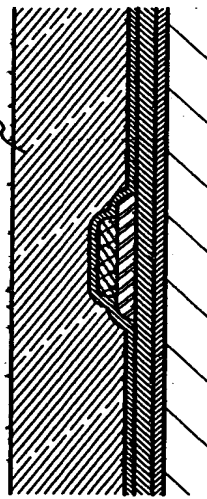
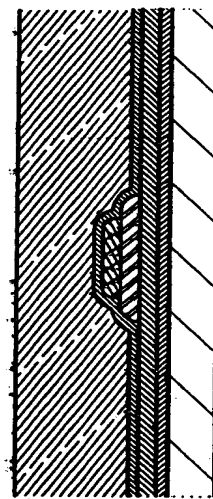
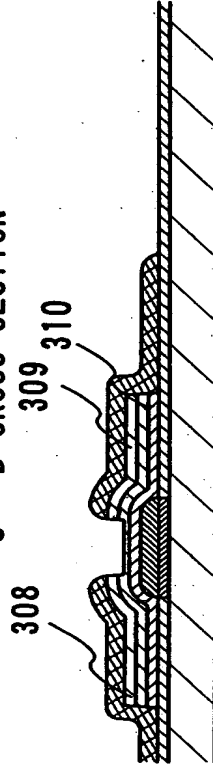


FIG. 8C

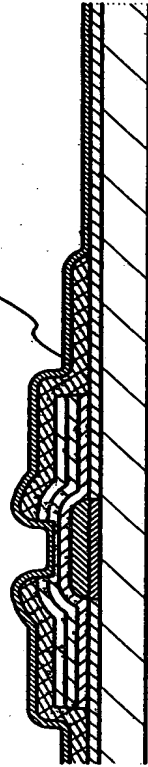
FIG. 8D



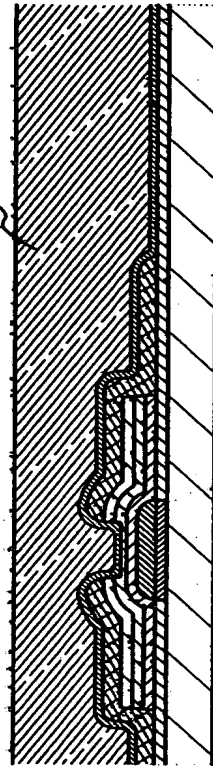
C - D CROSS SECTION



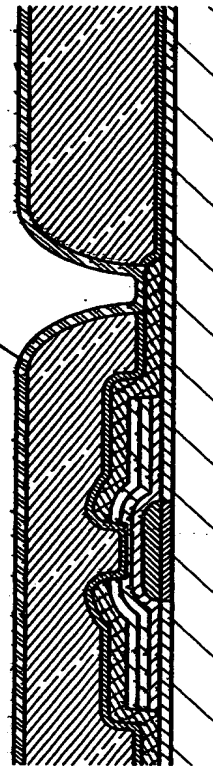
219



220



221



300



A - B CROSS SECTION

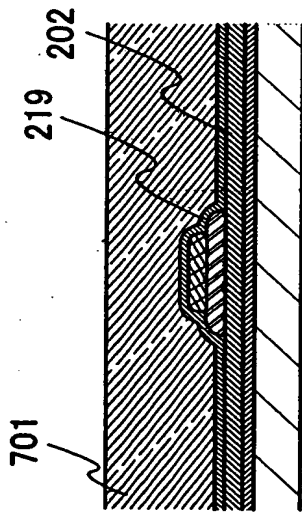


FIG. 9A

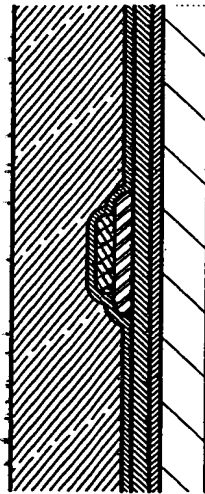


FIG. 9B

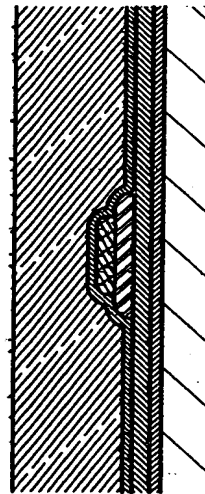
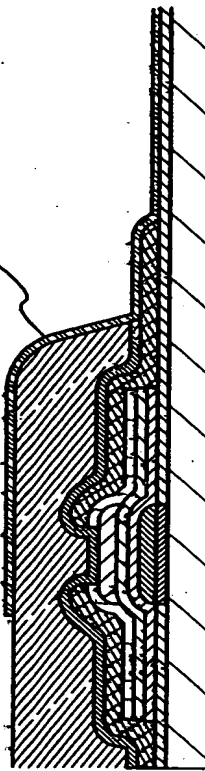
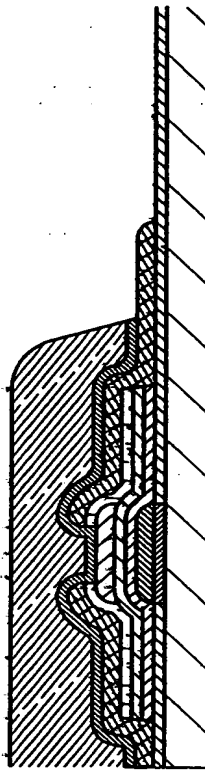
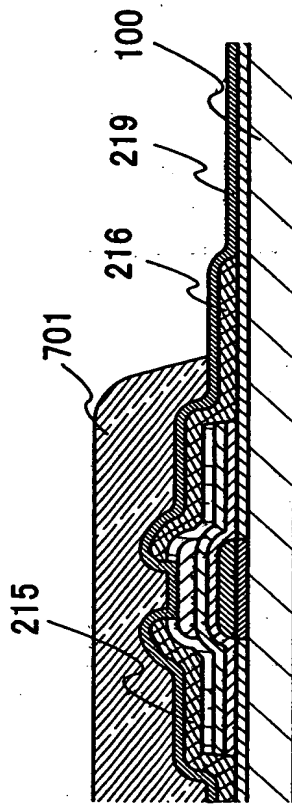


FIG. 9C

C - D CROSS SECTION



700

A - B CROSS SECTION

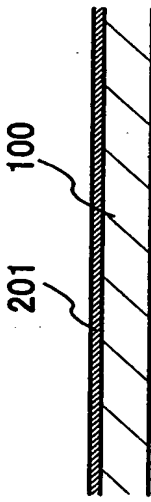


FIG. 10A



FIG. 10B

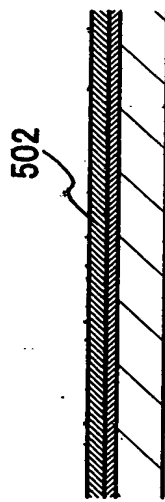


FIG. 10C



FIG. 10D

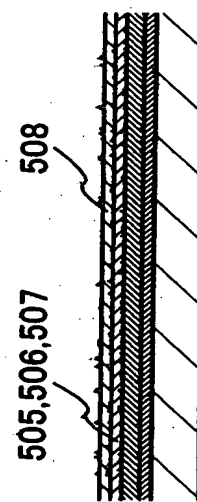
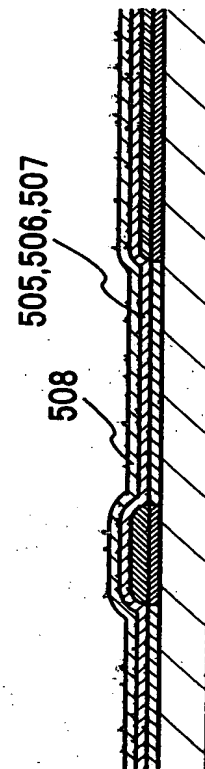
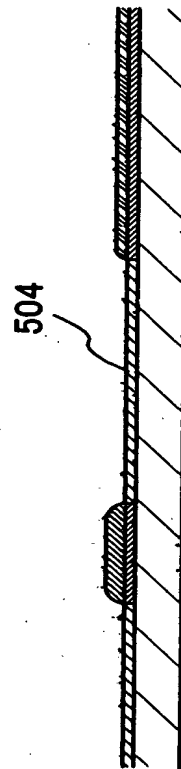
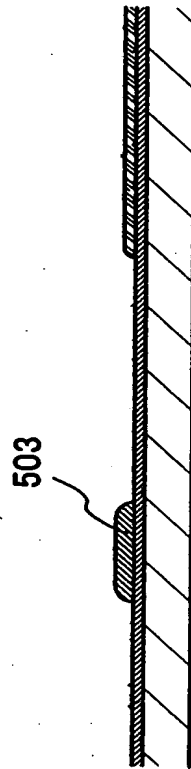
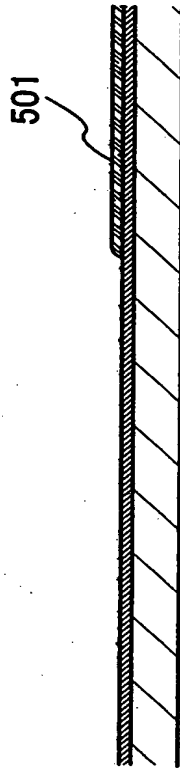
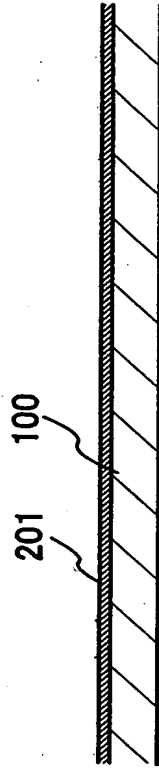
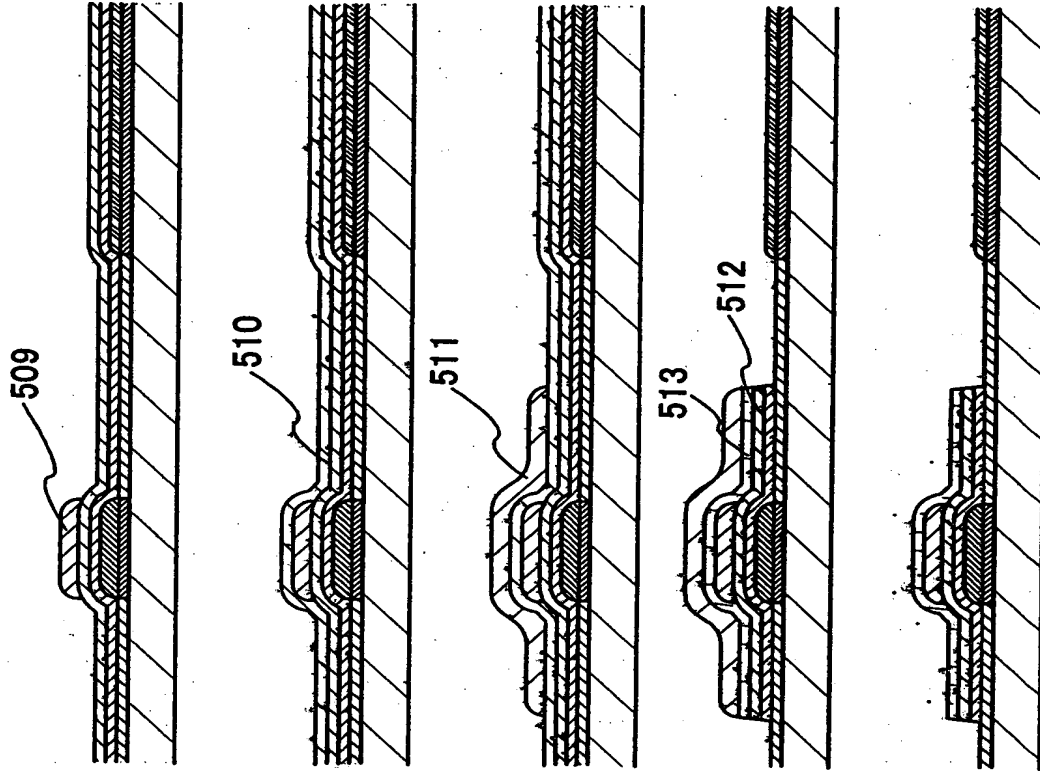


FIG. 10E

C - D CROSS SECTION



C - D CROSS SECTION



A - B CROSS SECTION

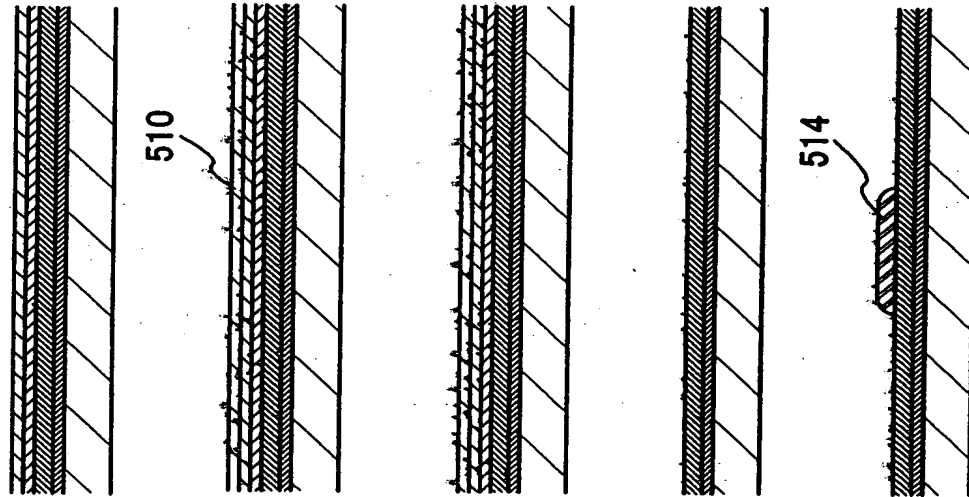


FIG. 11A

FIG. 11B

FIG. 11C

FIG. 11D

FIG. 11E

A - B CROSS SECTION

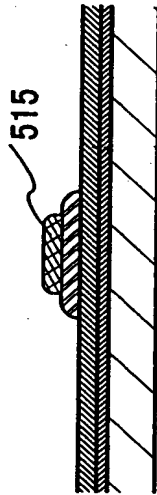


FIG. 12A

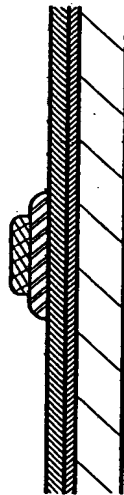


FIG. 12B

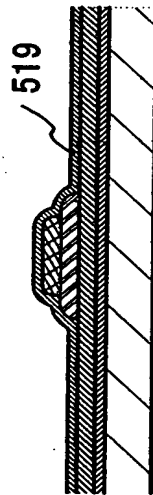


FIG. 12C

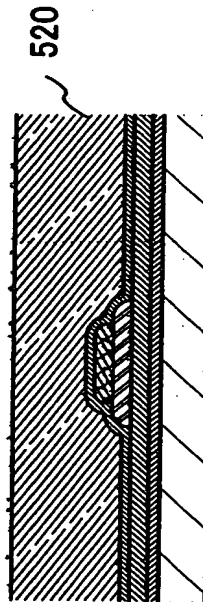


FIG. 12D

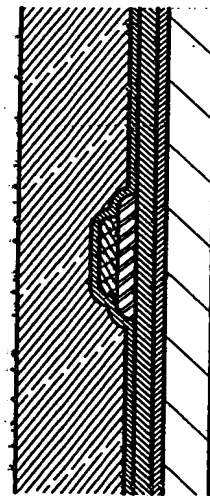
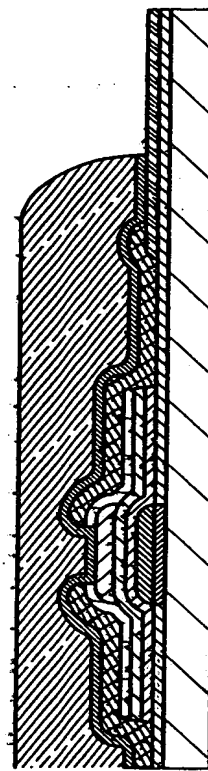
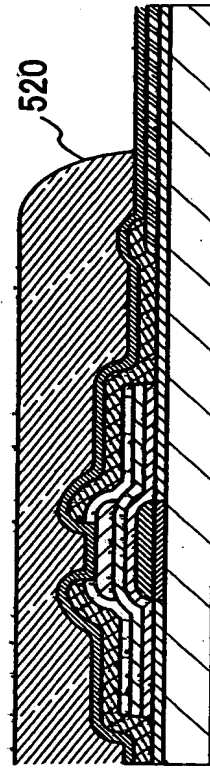
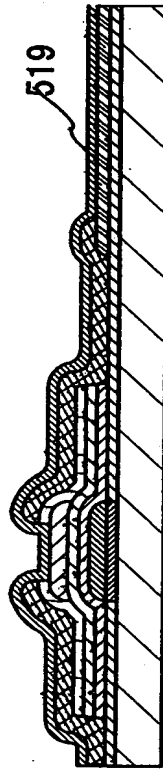
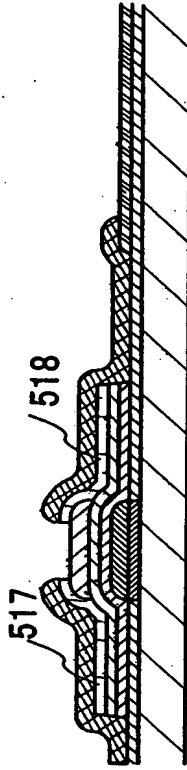
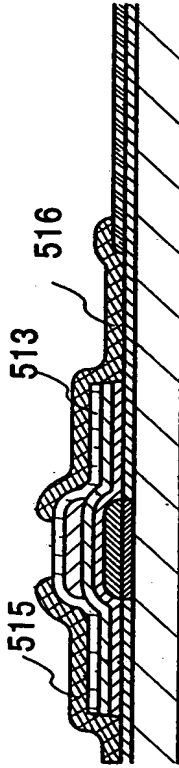


FIG. 12E

C - D CROSS SECTION



500

FIG. 13

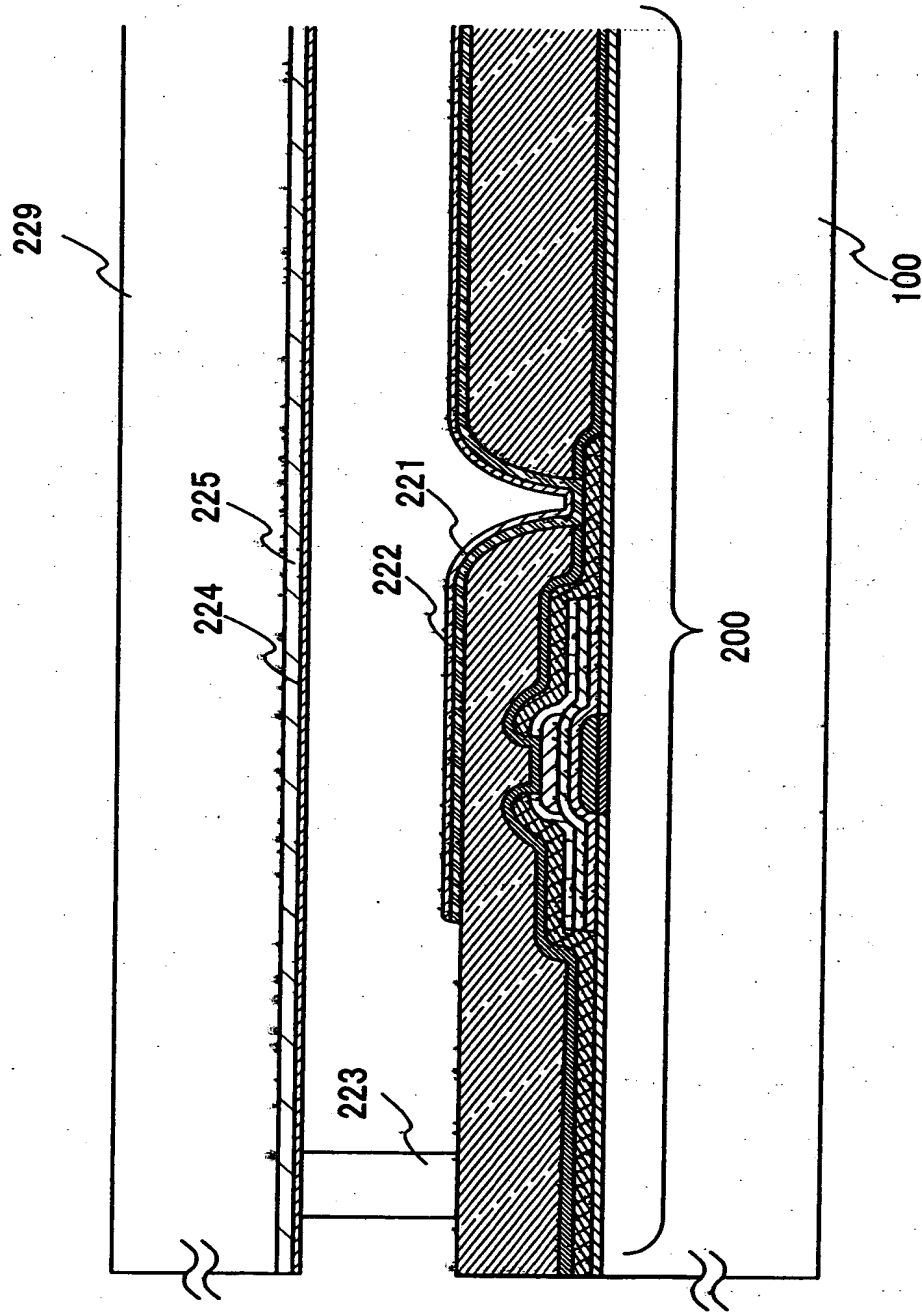


FIG. 14A

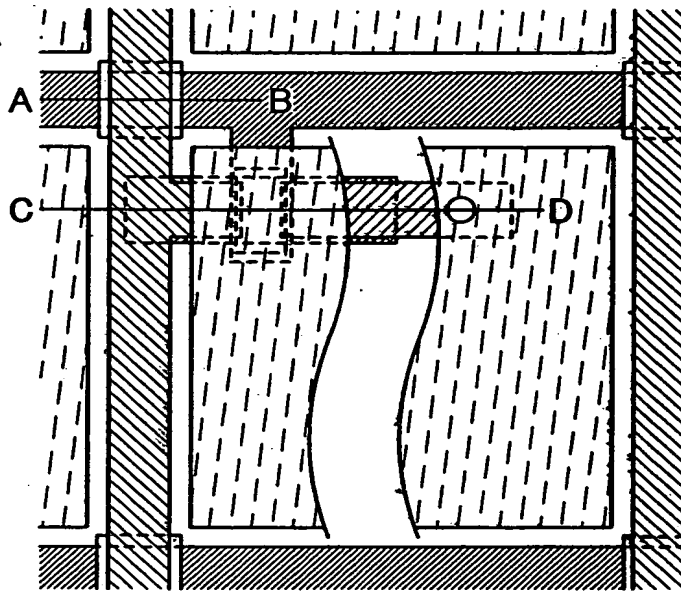


FIG. 14B

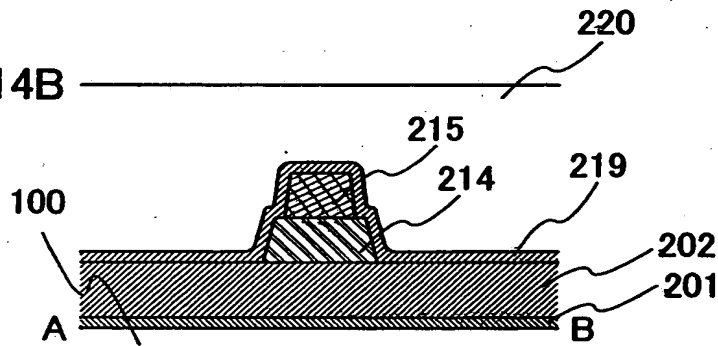


FIG. 14C

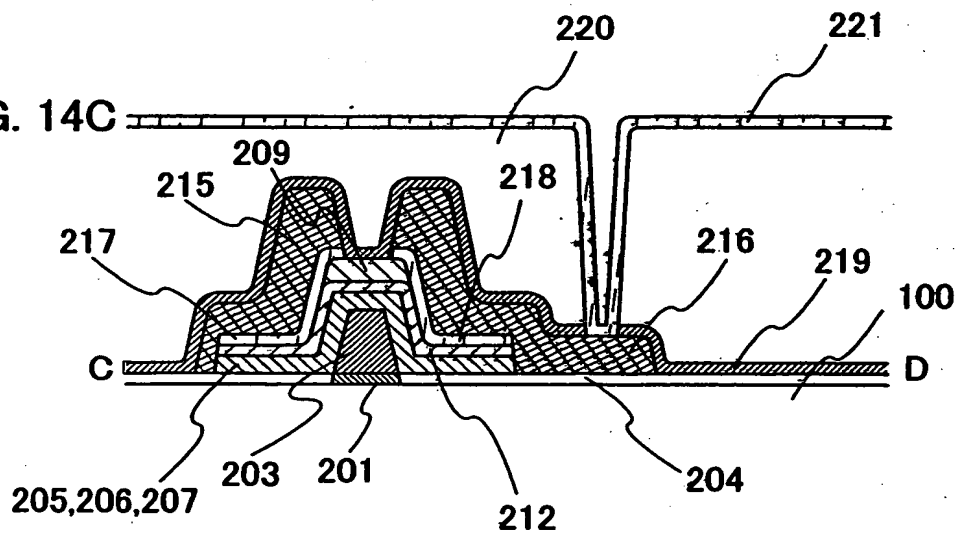


FIG. 15A

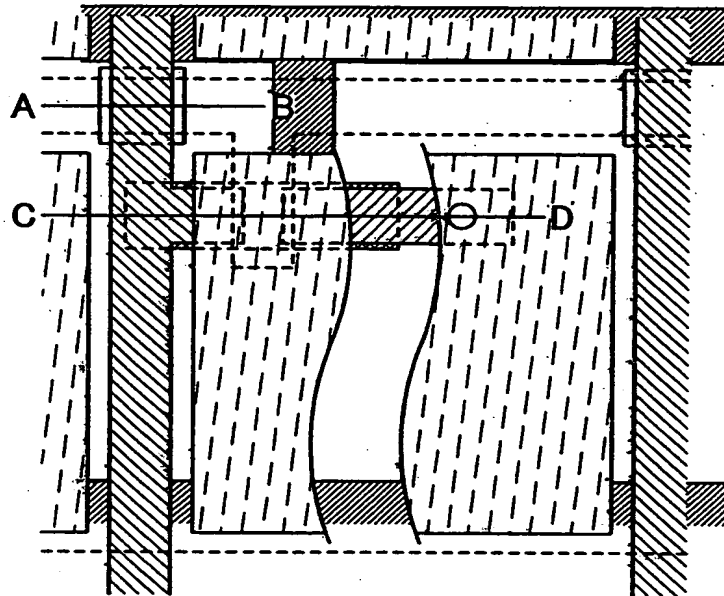


FIG. 15B

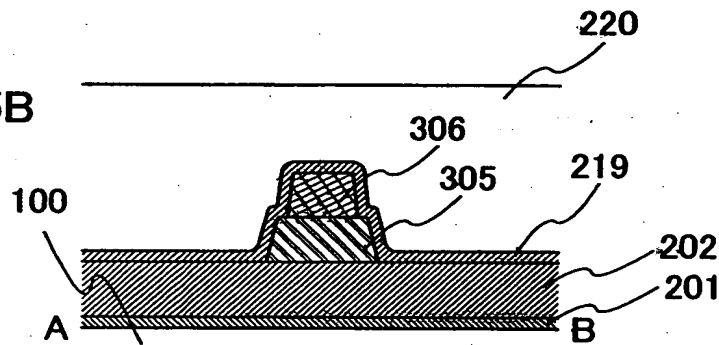


FIG. 15C

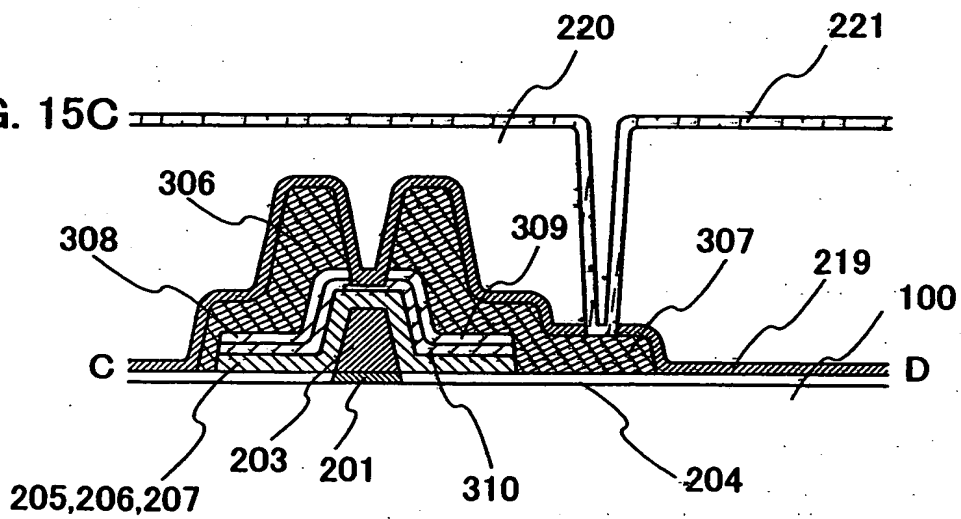


FIG. 16A

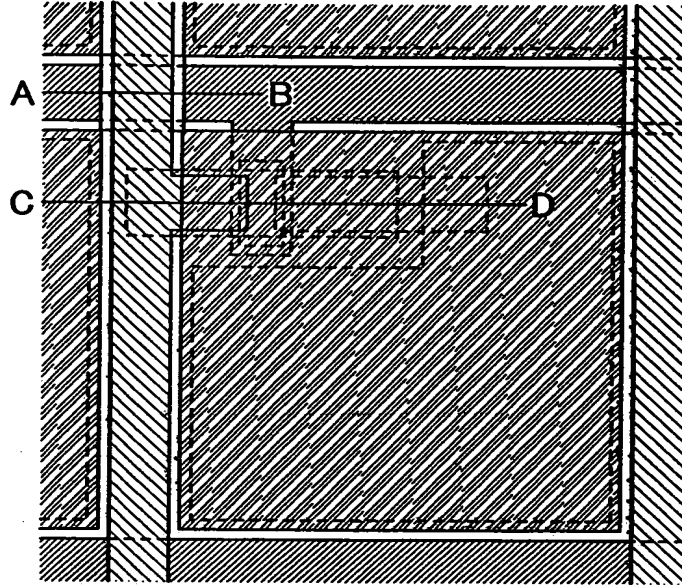


FIG. 16B

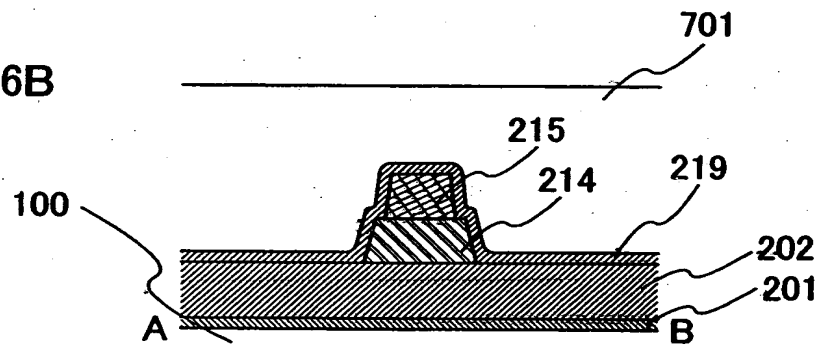


FIG. 16C

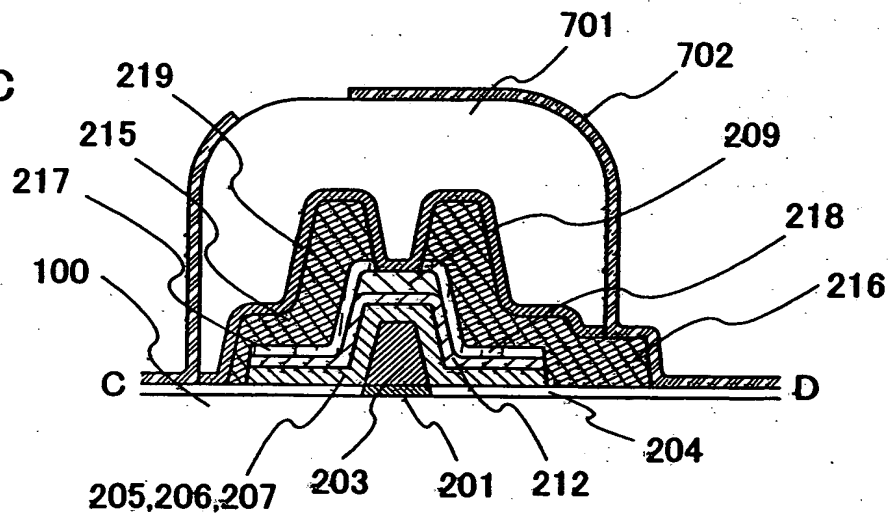




FIG. 17A

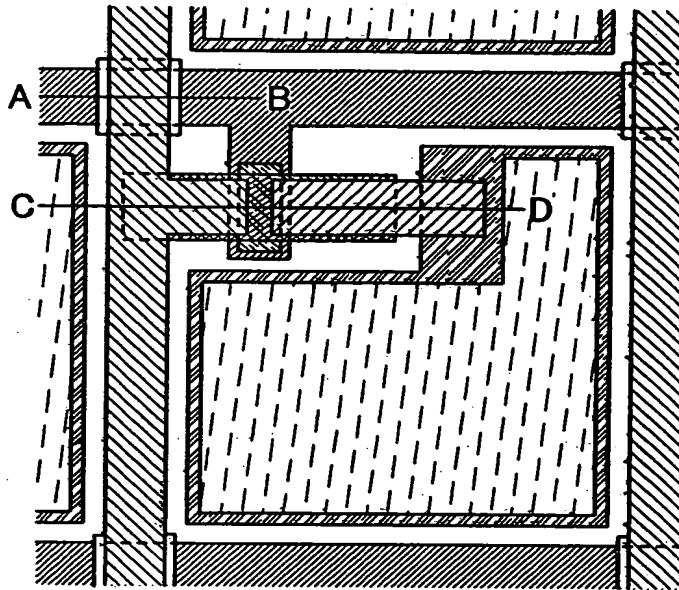


FIG. 17B

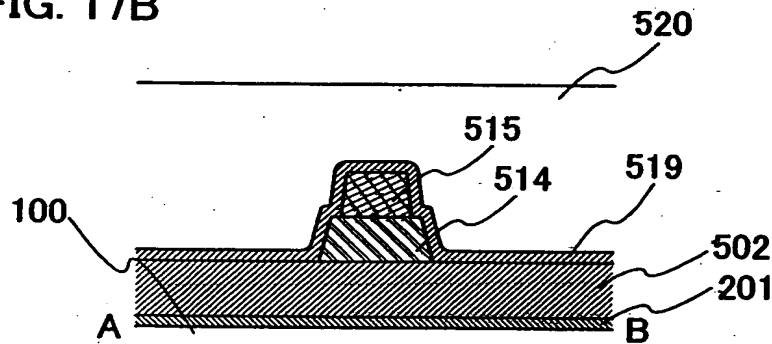


FIG. 17C

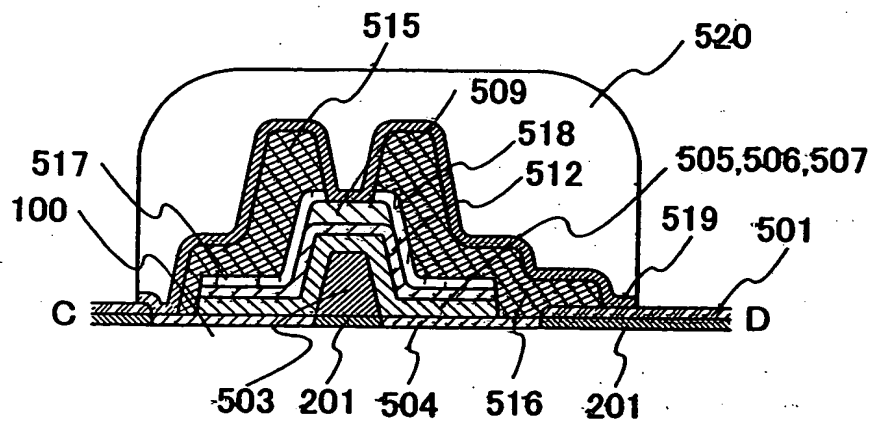


FIG. 18

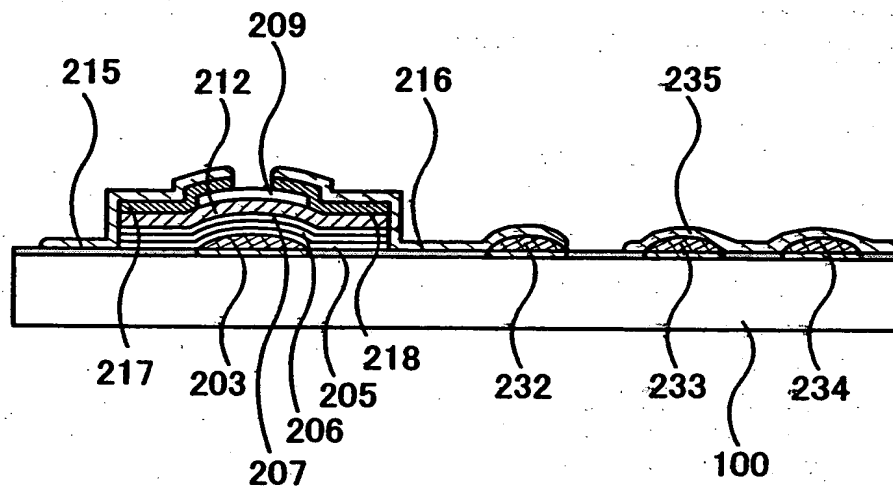


FIG. 19A

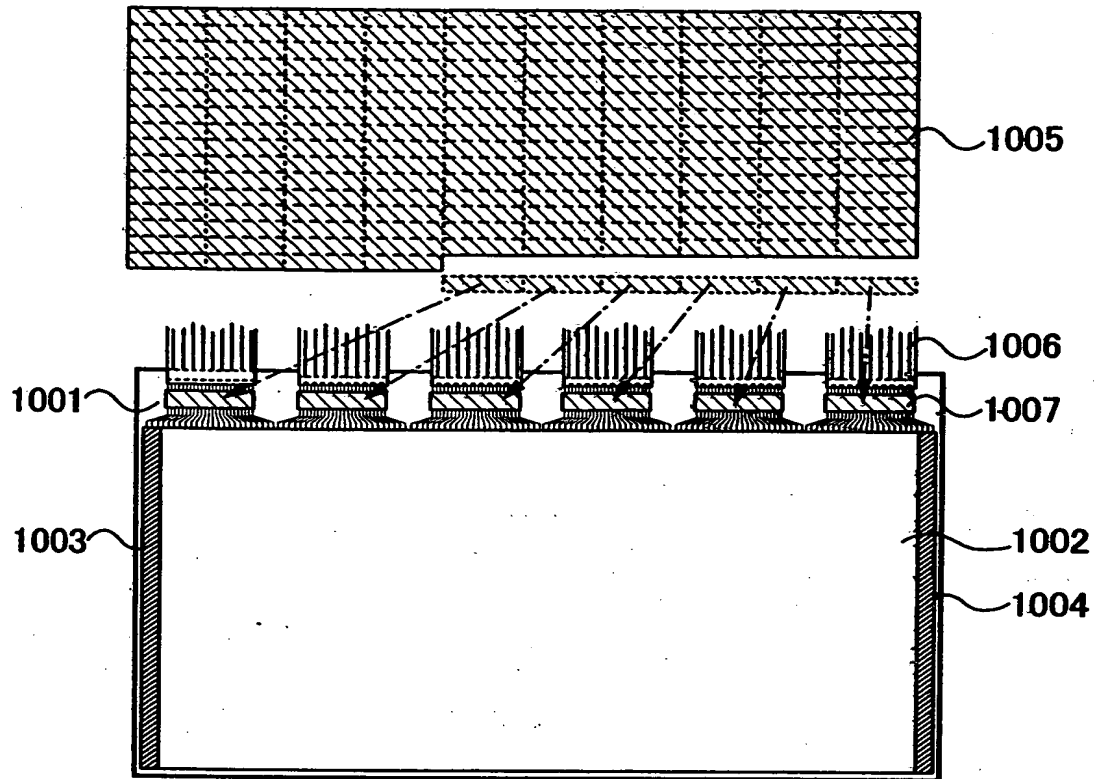


FIG. 19B

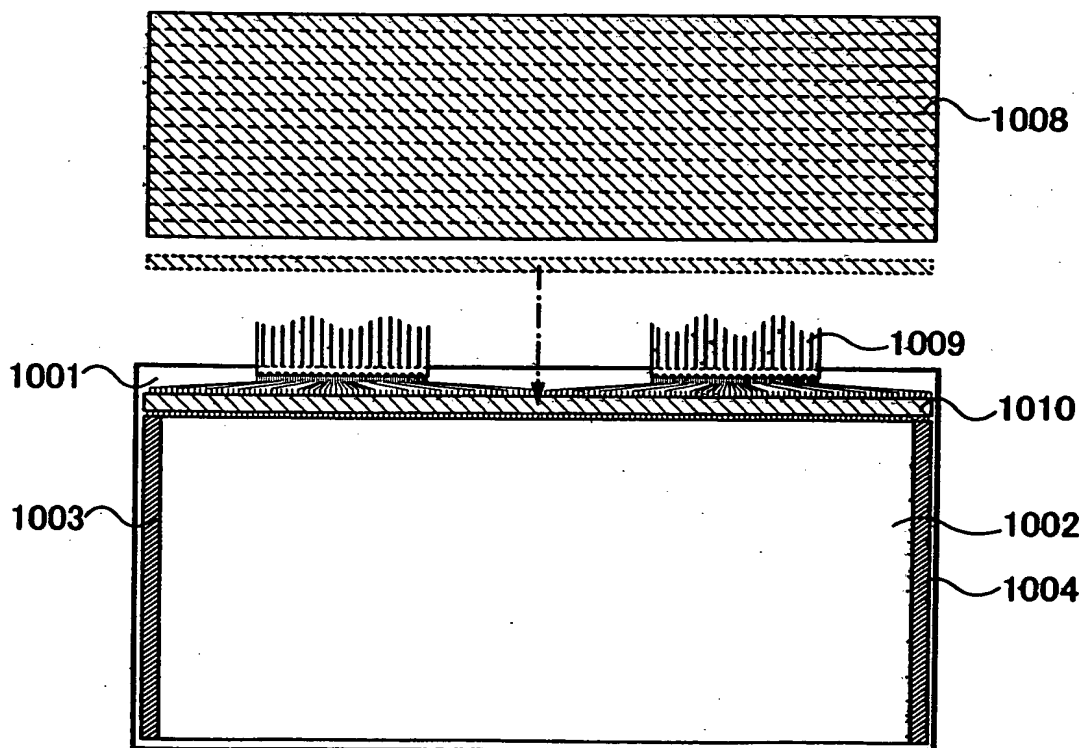


FIG. 20A

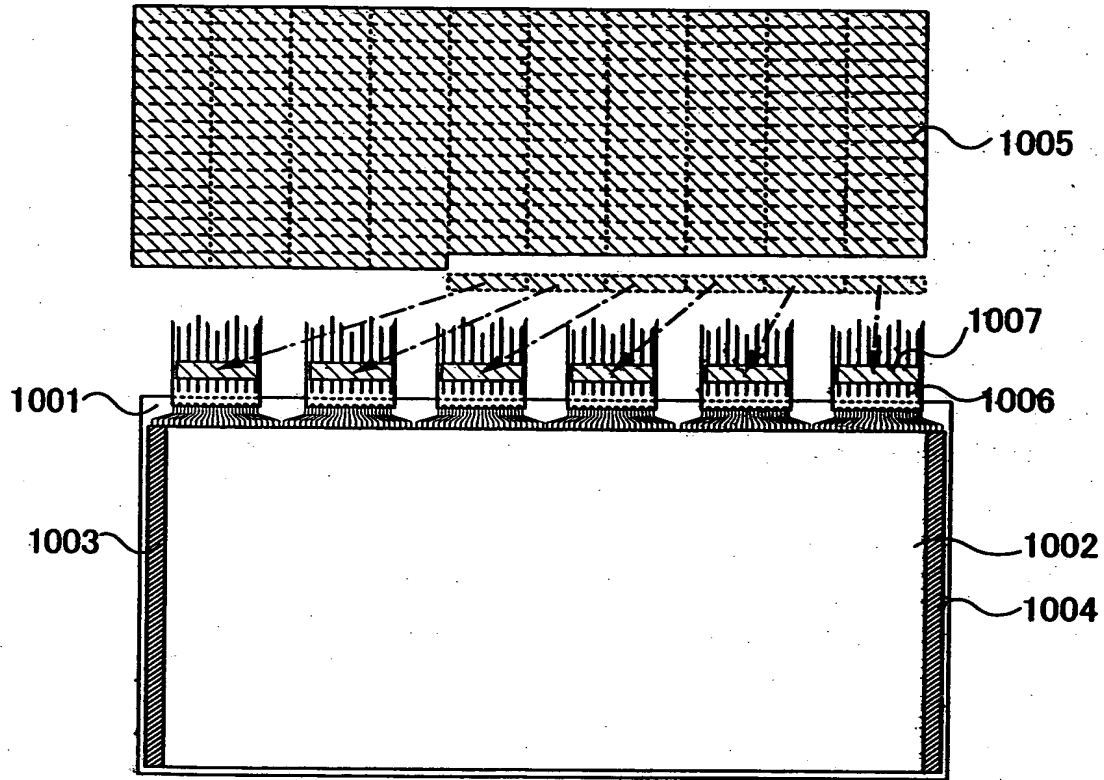


FIG. 20B

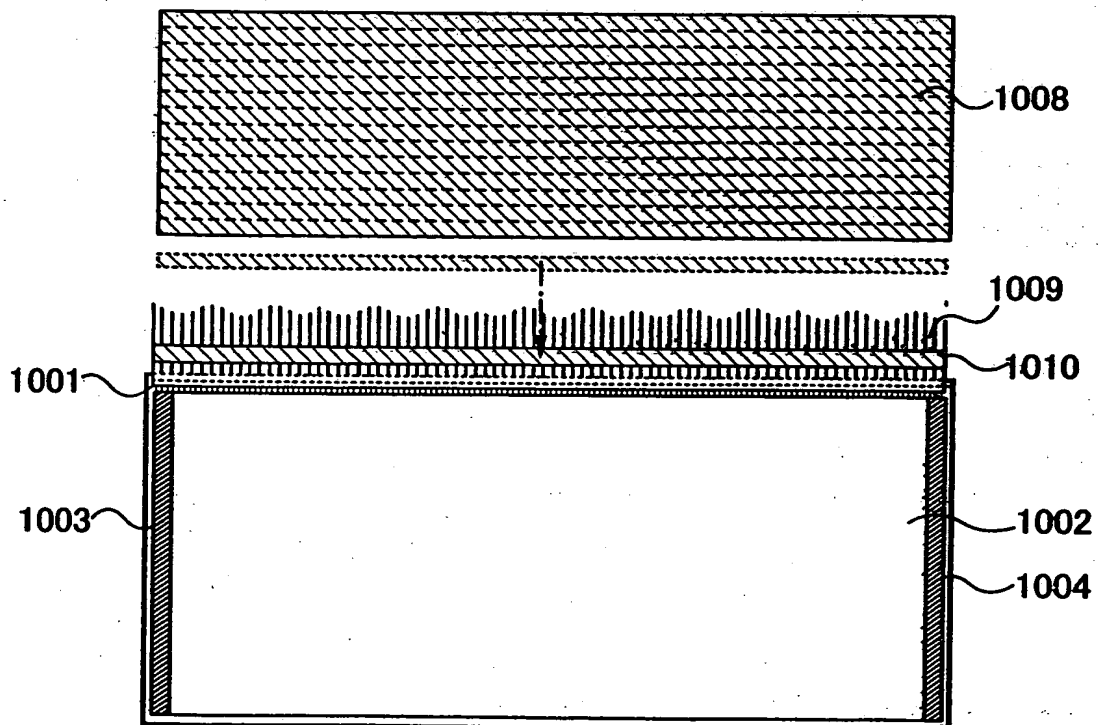


FIG. 21A

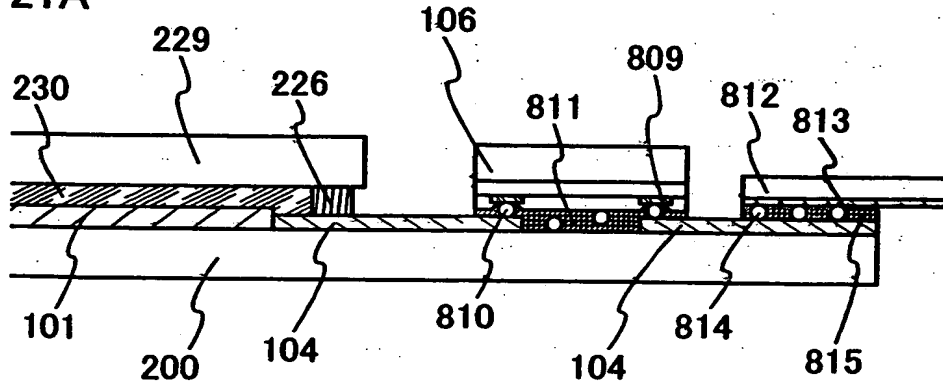


FIG. 21B

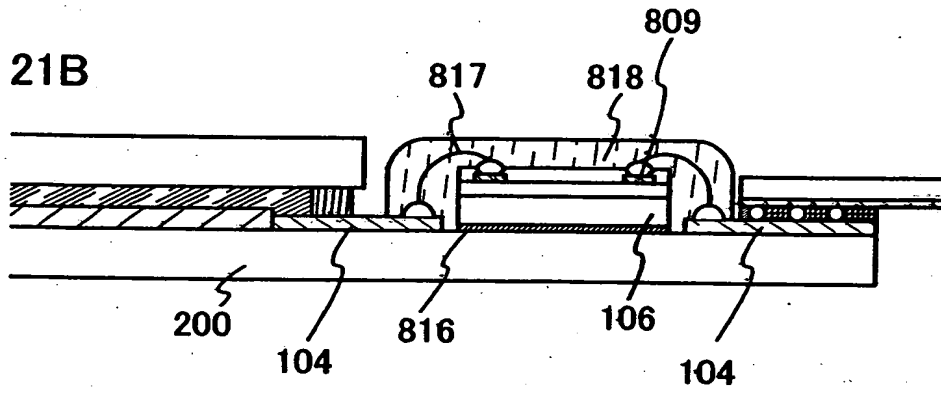


FIG. 22

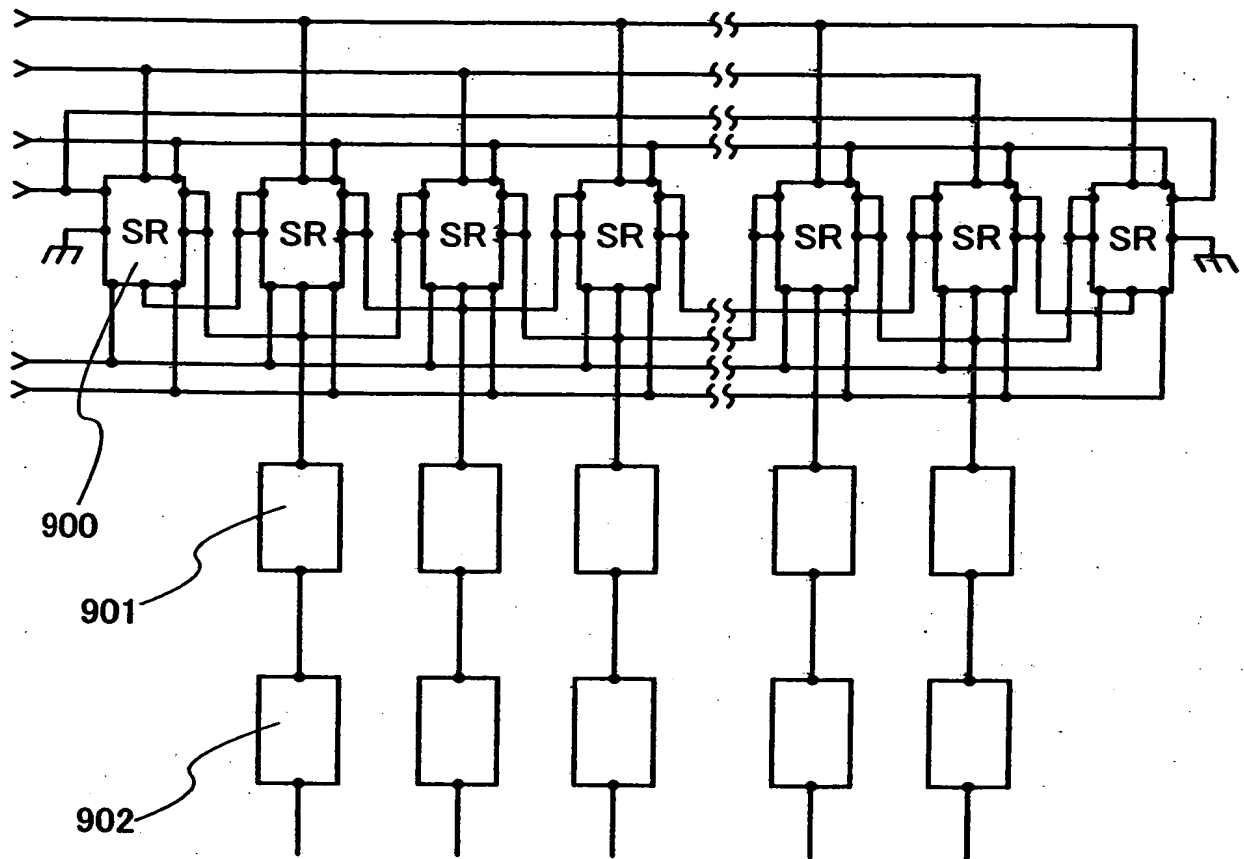


FIG. 23

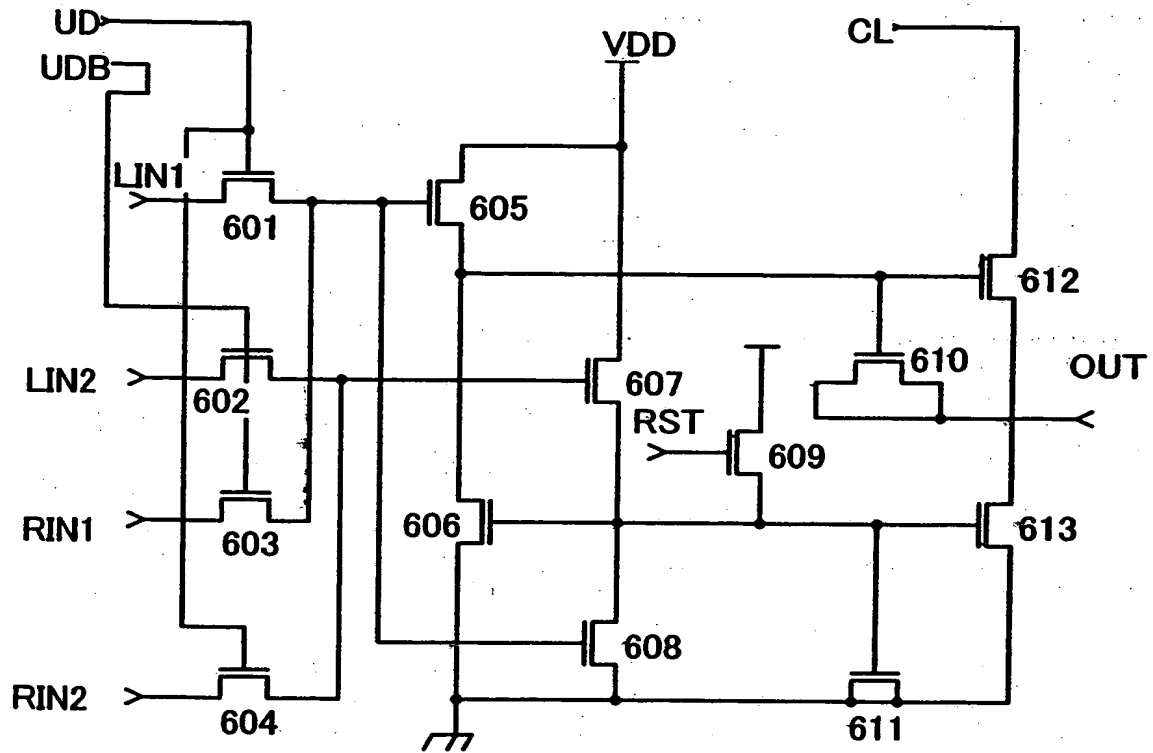


FIG. 24

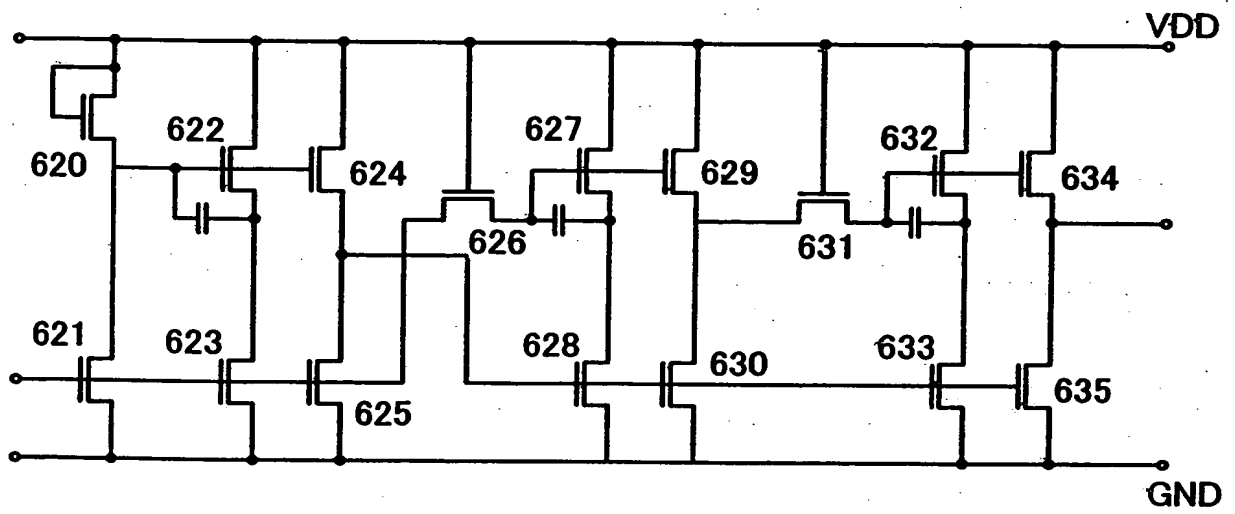




FIG. 25

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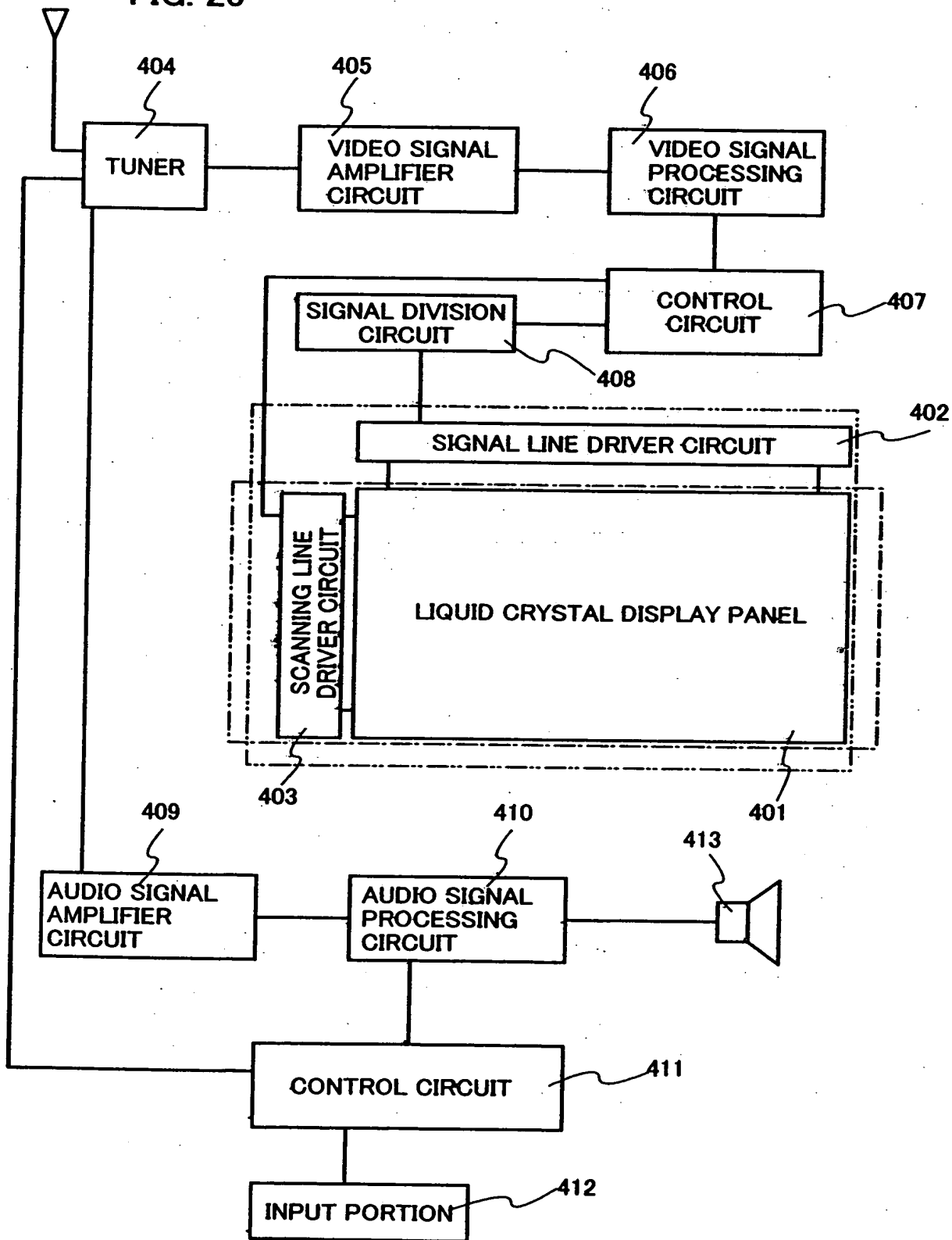


FIG. 26

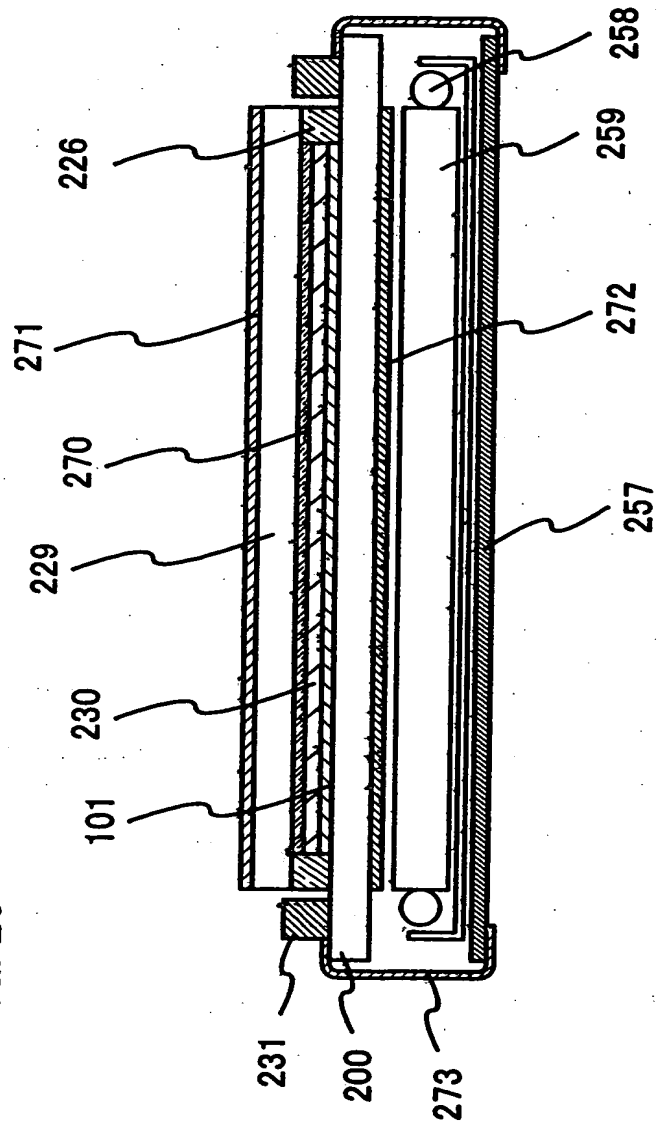


FIG. 27

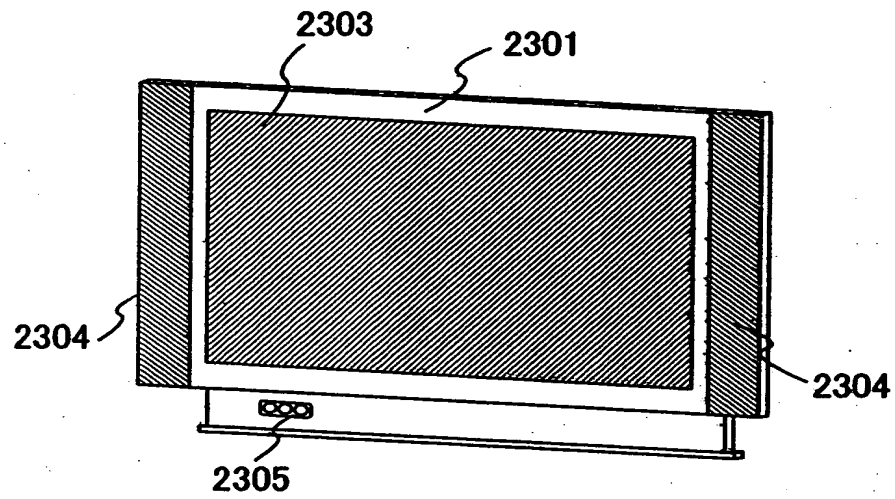


FIG. 28

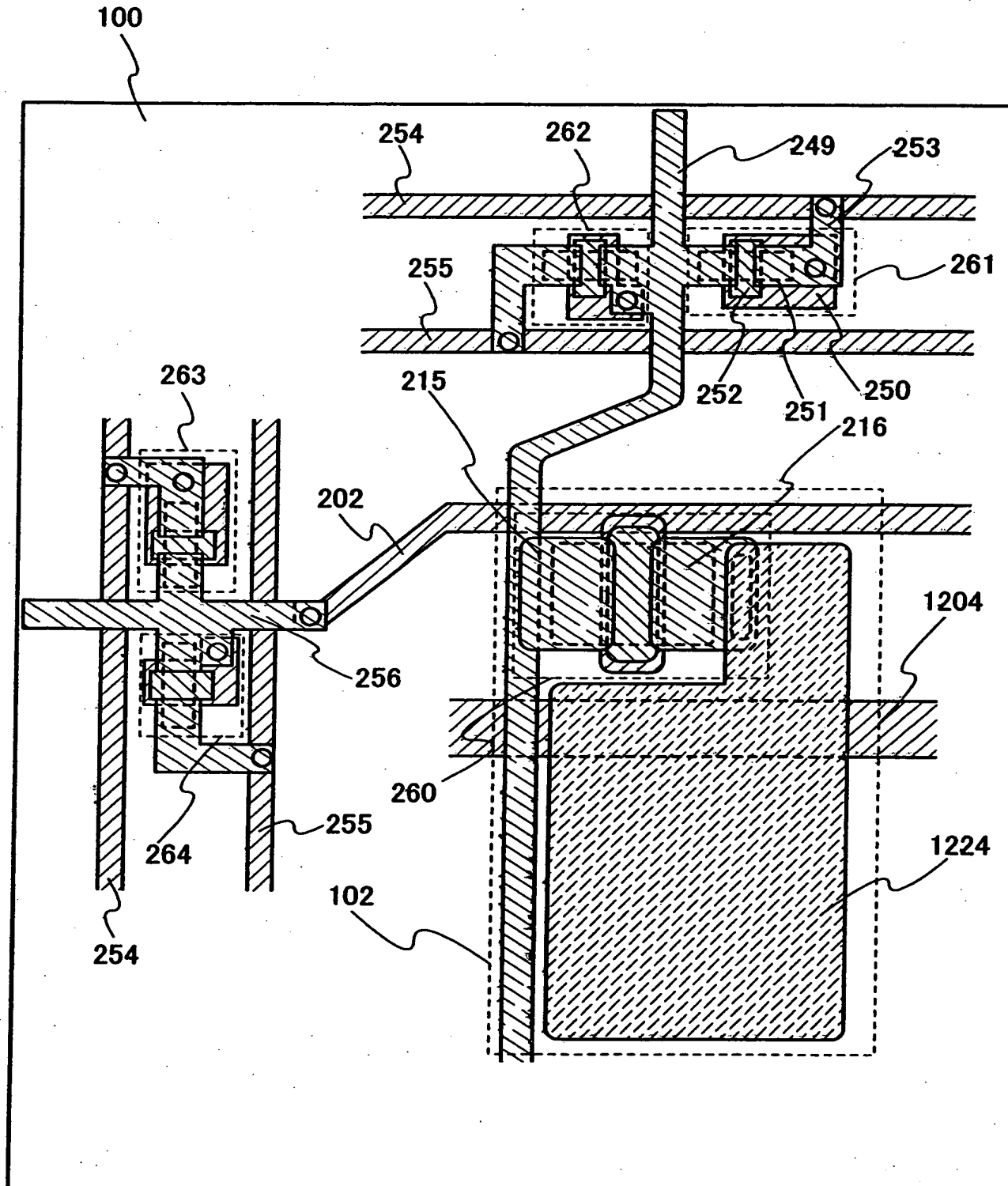


FIG. 29

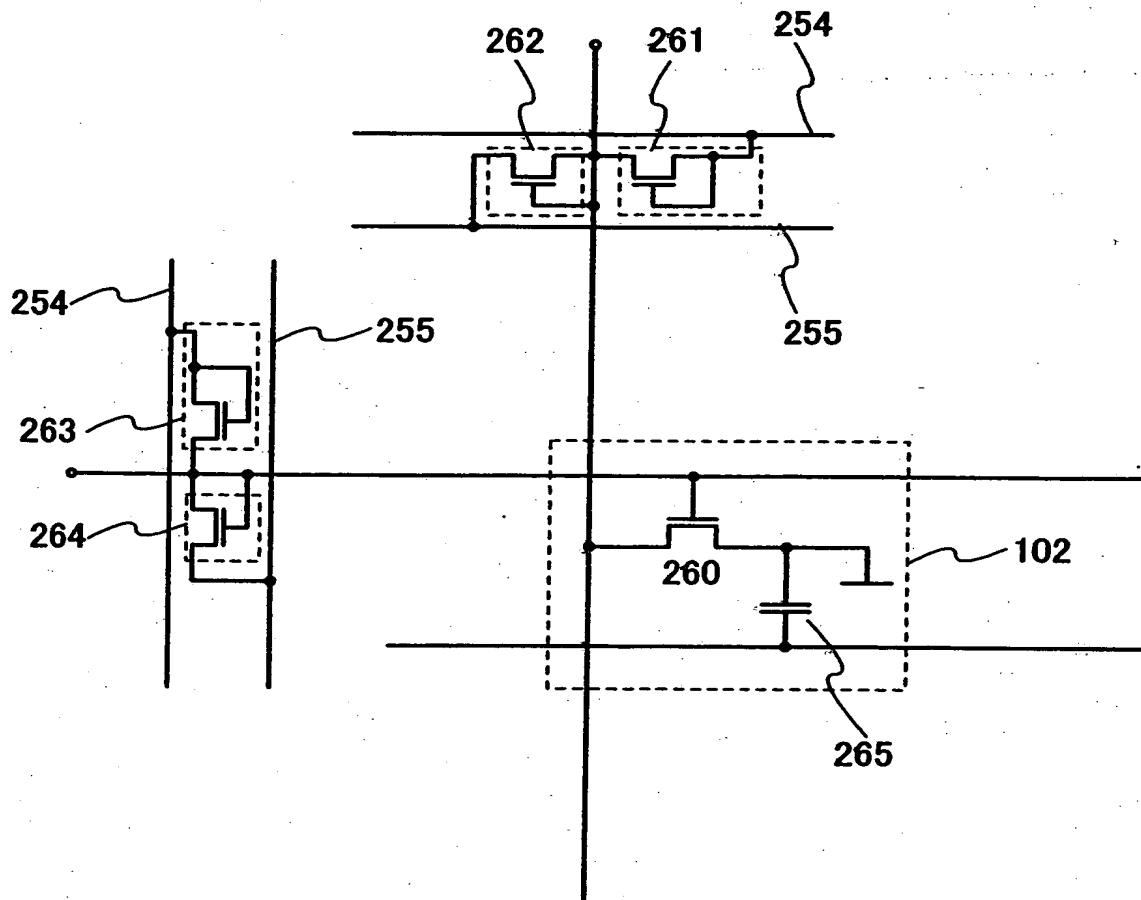
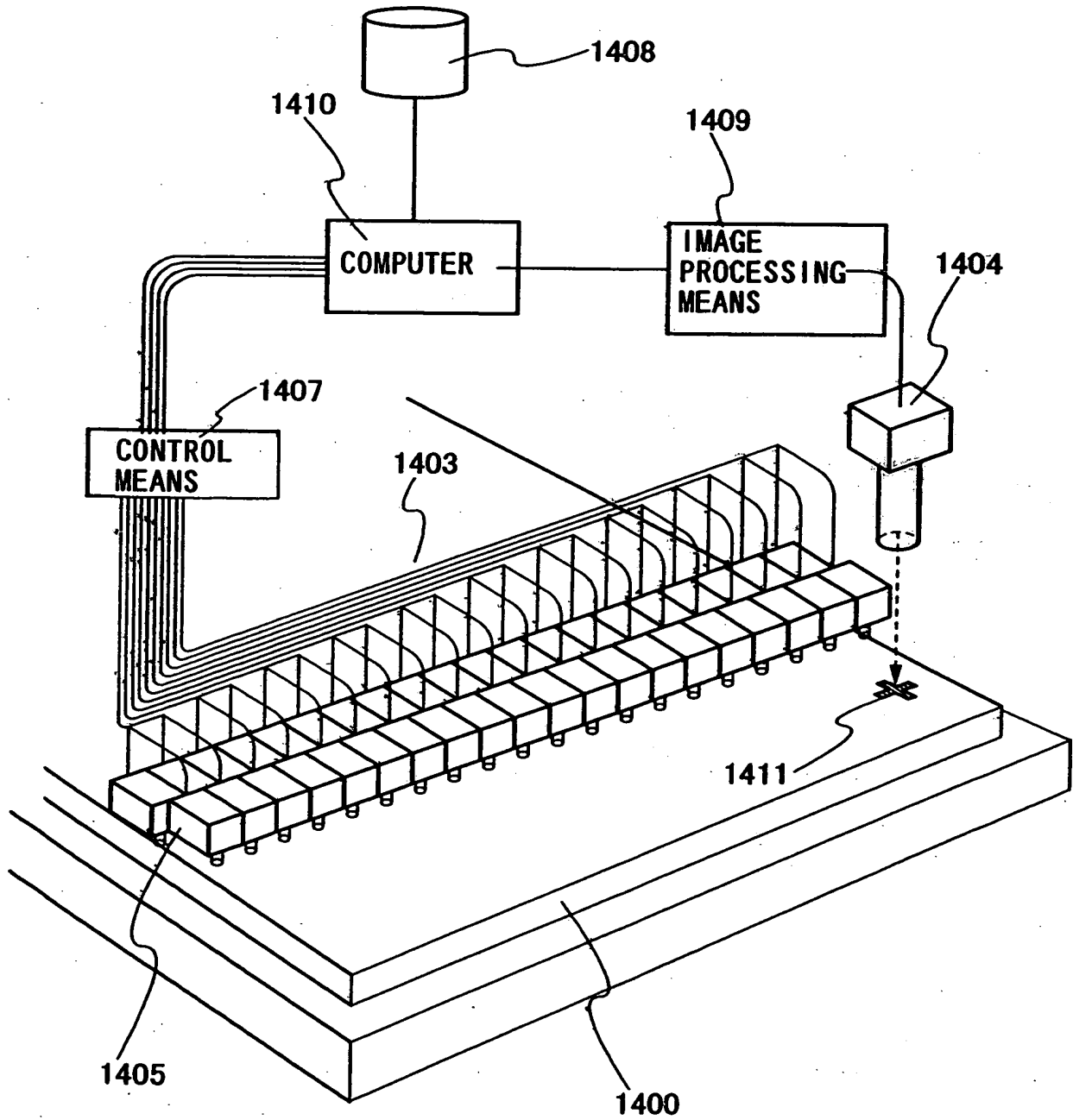


FIG. 30



EXPLANATION OF REFERENCE

100: substrate, 101: pixel portion, 102: pixel, 103: scan line input terminal, 104: signal  
 line input terminal, 105: driver IC, 106: driver IC, 107: scan line driver circuit, 108:  
 protection diode, 200: TFT substrate, 201: adhesion improving layer, 202: gate wiring  
 5 layer, 203: gate electrode, 204: insulating layer, 205: insulating layer, 206: insulating  
 layer, 207: insulating layer, 208: semiconductor film, 209: channel protective film, 210:  
 semiconductor film, 211: mask, 212: semiconductor film, 213: semiconductor film, 214:  
 interlayer insulating film, 215: source wiring, 216: drain wiring, 217: semiconductor film,  
 218: semiconductor film, 219: protective layer, 220: insulating layer, 221: pixel  
 10 electrode layer, 222: insulating layer, 223: sealant, 224: insulating layer, 225:  
 conductive layer, 226: sealant, 229: counter substrate, 230: liquid crystal layer, 231:  
 terminal, 232: connection wiring layer, 233: connection wiring layer, 234: connection  
 wiring layer, 235: connection wiring layer, 249: wiring, 250: gate electrode, 251:  
 semiconductor film, 252: insulating layer, 253: wiring layer, 254: common voltage wiring,  
 15 255: wiring, 256: signal wiring layer, 257: circuit board, 258: cold cathode tube, 259:  
 light guide plate, 260: TFT, 261: protection diode, 262: protection diode, 265: capacitor,  
 270: colored layer, 271: polarizer, 272: polarizer, 273: flexible printed circuit, 300: TFT  
 substrate, 301: semiconductor film, 302: mask, 303: semiconductor film, 304:  
 semiconductor film, 305: interlayer film, 306: source wiring, 307: drain wiring, 308:  
 20 semiconductor film, 309: semiconductor film, 310: semiconductor film, 401: pixel area,  
 402: signal line driver circuit, 403: scan line driver circuit, 404: tuner, 405: video signal  
 amplifier circuit, 406: video signal processing circuit, 407: control circuit, 408: signal  
 splitter circuit, 409: audio signal amplifier circuit, 410: audio signal processing circuit,  
 411: control circuit, 412: input unit, 413: speaker, 500: TFT substrate, 501: pixel  
 25 electrode layer, 502: gate wiring layer, 503: gate electrode, 504: insulating layer, 505:  
 insulating layer, 506: insulating layer, 507: insulating layer, 508: semiconductor layer,  
 509: channel protective film, 510: semiconductor film, 511: mask, 512: semiconductor  
 film, 513: semiconductor film, 514: interlayer insulating film, 515: source wiring, 516:  
 drain wiring, 517: semiconductor film, 518: semiconductor film, 519: insulating layer,

520: insulating layer, 601: TFT, 602: TFT, 603: TFT, 604: TFT, 605: TFT, 606: TFT, 607: TFT, 608: TFT, 609: TFT, 610: TFT, 611: TFT, 612: TFT, 613: TFT, 620: TFT, 621: TFT, 622: TFT, 623: TFT, 624: TFT, 625: TFT, 626: TFT, 627: TFT, 630: TFT, 631: TFT, 632: TFT, 633: TFT, 634: TFT, 635: TFT, 700: TFT substrate, 701: insulating layer, 702: pixel electrode layer, 809: input-output terminal, 810: conductive particle, 811: resin, 812: FPC, 813: wiring, 814: conductive particle, 815: resin, 816: adhesive material, 817: Au wire, 818: sealer resin, 1001: substrate, 1002: pixel area, 1003: driver circuit, 1004: driver circuit, 1005: substrate, 1006: tape, 1007: driver IC, 1008: substrate, 1009: tape, 1010: driver IC, 1204: capacitor line, 1224: pixel electrode, 1400: substrate, 1403: droplet discharge means, 1404: imaging means, 1405: head, 1407: control means, 1408: storage medium, 1409: image processing means, 1410: computer, 1411: marker, 1500: pulse output circuit, 1501: buffer circuit, 1502: pixel, 2301: case, 2303: display screen, 2304: speaker, and 2305: operation switches.